**Part 3: Logic Check**

1. To type cast a double into an int, you need to put (int) in front of the double: (int) 5.0
2. To declare the int array, you need to put [] after the int: int [] arri0
3. The scope of the variable temp declared in the lab is within the for-loop. It needs to be declared outside of the for loop in order to have access outside of the loop.
4. The scope of the variable total is within the for-loop
5. X is 10 because it is the max number and because it counts from 0 – 9
6. The logical error in the code at lines 36-42 is that there is no class named Cheese.java in the folder for this section of the program, so it can’t work. But to fix this, we’d have to make a class named Cheese.java in order to make it work.
7. Two pointers and objects were created in the fixed version of code.
8. The last block of else statements are considered redundant
9. Because the last block of else statements were redundant, I deleted them and fixed the rest in order to get the output we need
10. We can figure out what the first number for code was by creating a println statement that will print num1 (the first number asked to print): System.out.println(“The first number entered was: ” + num1);
11. Two characteristics that a constructor has is that it can be overloaded, and it does not return a value.
12. The purpose of ‘.’ in System.out.println or dlist[1].display; is to display whatever is within the statements
13. When you swap the order of the two lines, you get an error because at this point the dlist[0].display(); is an empty pointer.